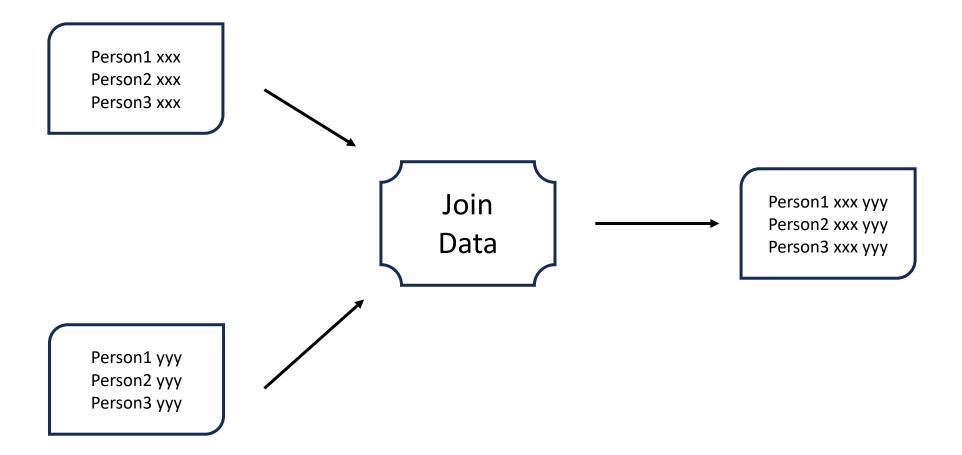
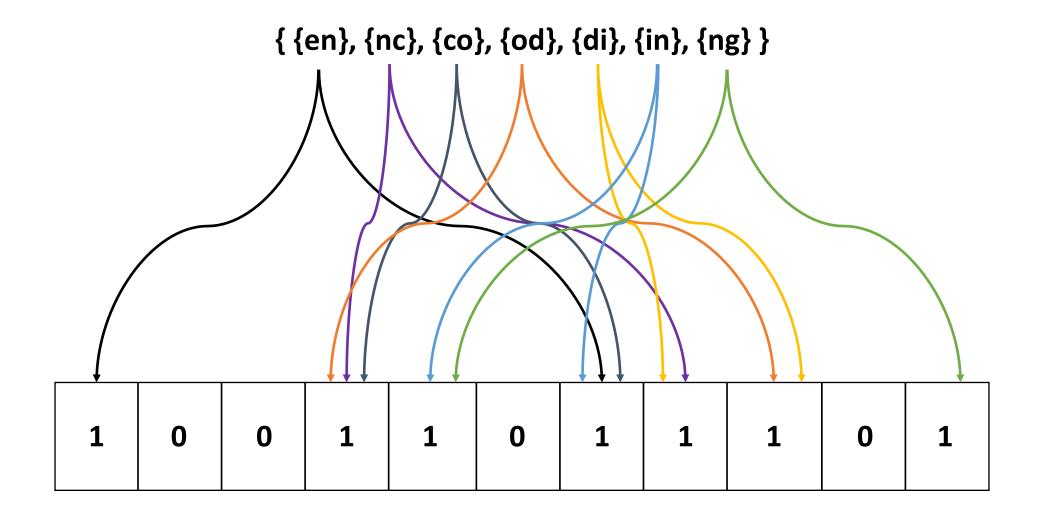


Researcher:





Index	Element	S	S'	
1	4	1	0	
2	3	1	1	
3	2	0	1	
4	1	1	1	

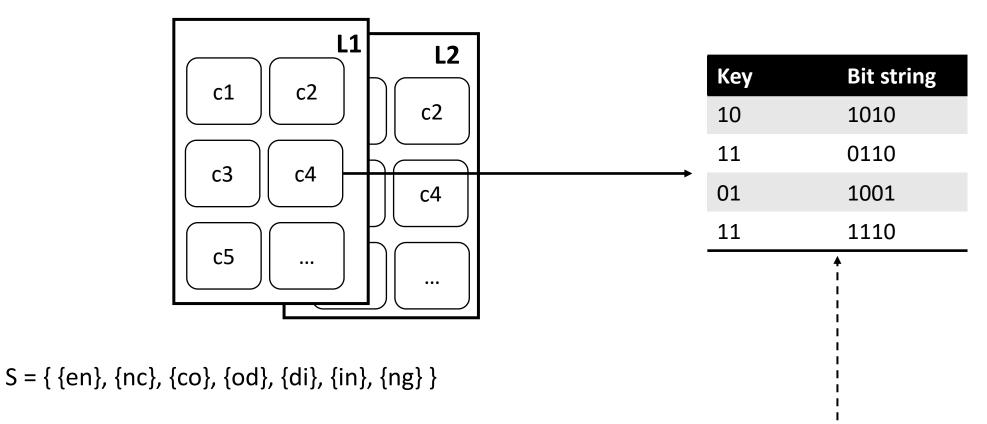
Estimated Jaccard Similarity

=
$$[1(\pi_1(S_1)=\pi_1(S'_1)) + 1(\pi_2(S_1)=\pi_2(S'_1))]/2$$

= $(1*0+1*1)/2$
= $1/2$

Index	Element	S	S'	
1	3	1	1	
2	4	1	0	
3	2	0	1	
4	1	1	1	

1) Initialization



2) Hashing Process

$$S_{1} = \{en\} \xrightarrow{h_{4}} 10010111 \xrightarrow{split} \{\{10\}, \{01\}, \{01\}, \{11\}\} \xrightarrow{Look up} \{\{1010\}, \{1001\}, \{1100\}, \{1110\}\}$$

$Q_1 = \{ pe, et, te, er \}$								
$\mathcal{H}_{\!_1}$	0	1	0	1	0	1	1	0
\mathcal{H}_{2}	1	1	0	0	1	0	1	0
\mathcal{H}_{3}	1	0	0	1	1	0	1	0
$\mathcal{H}_{\!\scriptscriptstyle 4}$	0	0	1	1	0	1	0	1
$\mathcal{G}(\mathcal{B}_{\!\scriptscriptstyle P})$)	¥	¥	¥	↓	¥	↓	\
$E_1 =$	{ 53 ·	,113 ,	42	, 7,	256	, 87	, 101	, 21 }

$Q_2 = \{\text{pe, et, te}\}$							$ Q_1 \cap Q_2 $		
	0	1	0	1	0	1	0	0	$Sim_{J}(\mathcal{Q}_{1},\mathcal{Q}_{2}) = \frac{1}{ \mathcal{Q}_{1} }$
	1	1	0	0	1	0	0	0	= 0.75
	1	0	0	1	1	0	0	0	$ E_{\perp}\cap$
	0	0	0	1	0	1	0	1	$Sim_{_{\mathrm{J}}}(E_{_{1}},E_{_{2}}) = \frac{ E_{_{1}}\cap E_{_{1}}\cap E_{_{1}}\cap E_{_{1}}}{ E_{_{1}}\cap E_{_{1}}\cap E_{_{2}} }$
	¥	¥		\	\downarrow	\downarrow		↓	= 0.75
$E_2 =$	53	, 113	,	7,	256	87	,	21 }	

	l1	12	13	14
$\mathbf{k_1}$	1	1	1	0
k_2	1	0	0	0
k ₂ k ₃ k ₄	0	0	1	0
k_4	1	1	0	0
h	1' ₁	h'2	h′ ₃	skip
	22	13	8	

